
 INFORMATION DISCLOSURE STATEMENT	<i>Complete if known</i>	
	Application Number: 09/734,801	
	Filing Date: December 12, 2000	
	First Named Inventor: Roland Carlsson, et. al.	
	Group Art Unit: 1637	
Examiner Name: Suryaprabha Chunduru		RECEIVED JUN 9 4 2003 TECH CENTER 1600/2900
SHEET 1 OF 2	Attorney Docket Number: EricPotter	

UNITED STATES PATENT DOCUMENTS				
EXAMINER'S INITIALS	CITE NO.	PATENT NUMBER	ISSUE DATE MM-DD-YYYY	FIRST NAMED INVENTOR
	A1	6,143,527	11-07-2000	Catherine J. Pachuk, et. al.

FOREIGN PATENT DOCUMENTS					
EXAMINER'S INITIALS	CITE NO.	DOCUMENT NUMBER	COUNTRY OR REGION	DATE OF PUBLICATION MM-DD-YYYY	FIRST NAMED INVENTOR OR APPLICANT
SPC ✓	B1	WO 98/01581	PCT	01-15-1998	Recombinant Biocatalysis, Inc.
✓	B2	WO 99/23236	PCT	05-14-1999	Diversa Corporation
✓	B3	WO 01/96551	PCT	12-20-2001	Diversa Corporation
✓	B4	WO 02/29032	PCT	04-11-2002	Diversa Corporation
✓	B5	WO 00/46344	PCT	08-10-2000	Diversa Corporation
✓	B6	WO 00/53744	PCT	09-14-2000	Diversa Corporation
✓	B7	WO 00/77262	PCT	12-21-2000	Diversa Corporation
✓	B8	WO 00/58517	PCT	10-05-2000	Diversa Corporation
✓	B9	WO 97/07205	PCT	02-27-1997	Novo Nordisk A/S
✓	B10	WO 97/07206	PCT	02-27-1997	Novo Nordisk A/S
✓	B11	WO 98/41623	PCT	09-24-1998	Novo Nordisk A/S
✓	B12	WO 98/41622	PCT	09-24-1998	Novo Nordisk A/S
✓	B13	WO 98/28416	PCT	07-02-1998	Novo Nordisk A/S
✓	B14	WO 00/72013	PCT	11-30-2000	The Penn State Research Foundation
✓	B15	WO 01/75158	PCT	10-11-2001	The Penn State Research Foundation
✓	B16	WO 96/05803	PCT	02-29-1996	Quest International B.V.
✓	B17	WO 01/34835	PCT	05-17-2001	Max-Planck Gesellschaft zur Förderung der Wissenschaften E.V., et. al.
✓	B18	WO 99/58661	PCT	11-18-1999	Diatech Pty. Ltd.

EXAMINER'S SIGNATURE	<i>Prabha Chunduru</i>	DATE CONSIDERED	3/28/05
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SHEET 2 OF 2		Attorney Docket Number: EricPotter

SPC	B19	WO 02/16606	PCT	02-28-2002	Biomethodes
SPC	B20	WO 00/09679	PCT	02-24-2000	Proteus (S.A.)
SPC	B21	WO 00/34512	PCT	06-15-2000	Proteus (S.A.)

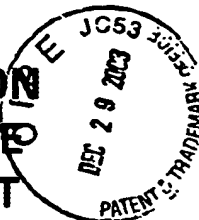
OTHER PRIOR ART - NON-PATENT DOCUMENTS		
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in Capital Letters), title of the article (when appropriate), title of the item(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
SPC		

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SHEET 1 OF 9

Attorney Docket Number: 0046-P02386USO

UNITED STATES PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	PATENT NUMBER	ISSUE DATE MM-DD-YYYY	FIRST NAMED INVENTOR
SC	A1	4,888,286	12-19-1989	Crea
	A2	5,023,171	06-11-1991	Ho et al.
	A3	5,252,479	10-12-1993	Srivastava
	A4	5,270,170	12-14-1993	Schatz et al.
	A5	5,338,665	08-16-1994	Schatz et al.
	A6	5,491,074	02-13-1996	Aldwin et al.
	A7	5,498,530	03-12-1996	Schatz et al.
	A8	5,512,463	04-30-1996	Stemmer
	A9	5,514,568	05-07-1996	Stemmer
	A10	5,521,291	05-28-1996	Curiel et al.
	A11	5,573,907	11-12-1996	Carrino et al.
	A12	5,605,793	02-25-1997	Stemmer
	A13	5,712,089	01-27-1998	Borrebaeck et al.
	A14	5,723,323	03-03-1998	Kauffman et al.
	A15	5,733,731	03-31-1998	Schatz et al.
	A16	5,733,753	03-31-1998	Jørgensen
	A17	5,763,192	06-09-1998	Kauffman et al.
	A18	5,798,208	08-25-1998	Crea
	A19	5,811,238	09-22-1998	Stemmer et al.
	A20	5,814,476	09-29-1998	Kauffman et al.
	A21	5,817,483	10-06-1998	Kauffman et al.
	A22	5,824,514	10-20-1998	Kauffman et al.

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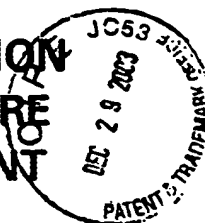
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Attorney Docket Number: 0046-P02386US0

<i>SPE</i>	A23	5,830,650	11-03-1998	Crea
	A24	5,830,696	11-03-1998	Short
	A25	5,830,721	11-03-1998	Stemmer et al.
	A26	5,834,252	11-10-1998	Stemmer et al.
	A27	5,837,458	11-17-1998	Minshull et al.
	A28	5,858,657	01-12-1999	Winter et al.
	A29	5,858,725	01-12-1999	Crowe et al.
	A30	5,871,907	02-16-1999	Winter et al.
	A31	5,925,544	07-20-1999	Jørgensen
	A32	5,928,905	07-27-1999	Stemmer et al.
	A33	5,939,250	08-17-1999	Short
	A34	5,965,408	10-12-1999	Short
	A35	5,969,108	10-19-1999	McCafferty et al.
	A36	5,976,862	11-02-1999	Kauffman et al.
	A37	6,096,548	08-01-2000	Stemmer
	A38	6,117,679	09-12-2000	Stemmer
	A39	6,132,970	10-17-2000	Stemmer
	A40	6,143,527	11-07-2000	Pachuk et al.
	A41	6,153,410	11-28-2000	Arnold et al.
	A42	6,156,511	12-05-2000	Schatz et al.
	A43	6,159,687	12-12-2000	Vind
	A44	6,159,688	12-12-2000	Borchert, et al.
<i>Q</i>	A45	6,159,690	12-12-2000	Borrebaeck et al.

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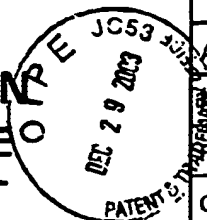
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SHEET 3 OF 9

Attorney Docket Number: 0046-P02386USO

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	DOCUMENT NUMBER	COUNTRY OR REGION	DATE OF PUBLICATION MM-DD-YYYY	FIRST NAMED INVENTOR OR APPLICANT
SDC	B1	WO 86/05803	PCT	10-09-1986	Ballivet, Kauffman
	B2	EP 0 368 684 A	EP	05-16-1990	Medical Research Council
	V B3	EP 0 415 731 A	EP	03-06-1991	The Wellcome Foundation Limited
	B4	EP 0 456 304 A	EP	11-13-1991	Eastman Kodak Company
	B5	EP 0 590 689 A	EP	04-06-1994	Ballivet, Kauffman
	B6	WO 90/07936	PCT	07-26-1990	Chiron Corporation
	B7	WO 90/14430	PCT	11-29-1990	Scripps Clinic and Research Foundation
	B8	WO 92/01047	PCT	01-23-1992	Cambridge Antibody Technology Limited
	B9	WO 92/15702	PCT	09-17-1992	Bradbury
	B10	WO 93/07282	PCT	04-15-1993	Boehringer Ingelheim International GMBH
	B11	WO 93/08278	PCT	04-29-1993	Affymax Technologies N.V.
	B12	WO 93/12257	PCT	06-24-1993	Hybridtech Incorporated
	B13	WO 94/12632	PCT	06-09-1994	University College London
	B14	WO 94/28173	PCT	12-08-1994	Affymax Technologies N.V.
	B15	WO 95/22625	PCT	08-24-1995	Affymax Technologies N.V.
	V B16	WO 96/05803	PCT	02-29-1996	Quest International B.V.
	B17	WO 96/17056	PCT	06-06-1996	Institut Pasteur
	B18	WO 96/40750	PCT	12-19-1996	Glaxo Group Limited
	B19	WO 96/40987	PCT	12-19-1996	Affymax Technologies N.V.
	V B20	WO 97/07205	PCT	02-27-1997	Novo Nordisk A/S

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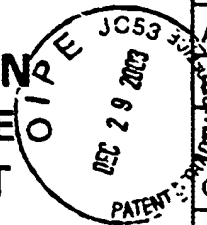
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SPC	B21	WO 97/07206	PCT	02-27-1997	Novo Nordisk A/S
	B22	WO 97/08320	PCT	03-06-1997	Morphosysgesellschaft für Proteinoptimierung MBH
	B23	WO 97/20078	PCT	06-05-1997	Affymax Technologies N.V.
✓	B24	WO 97/35957	PCT	10-02-1997	Maxygen, Inc.
✓	B25	WO 97/35966	PCT	10-02-1997	Maxygen, Inc.
✓	B26	WO 98/01581	PCT	01-15-1998	Recombinant Biocatalysis, Inc.
✓	B27	WO 98/05765	PCT	02-12-1998	Novo Nordisk A/S
✓	B28	WO 98/13485	PCT	04-02-1998	Maxygen, Inc.
	B29	WO 98/13487	PCT	04-02-1998	Maxygen, Inc.
	B30	WO 98/25965	PCT	06-18-1998	Glaxo Group Limited
	B31	WO 98/27230	PCT	06-25-1998	Maxygen, Inc.
	B32	WO 98/28416	PCT	07-02-1998	Novo Nordisk A/S
	B33	WO 98/31837	PCT	07-23-1998	Maxygen, Inc.
	B34	WO 98/32845	PCT	07-30-1998	Bioinvent International AB
	B35	WO 98/41622	PCT	09-24-1998	Novo Nordisk A/S
	B36	WO 98/41623	PCT	09-24-1998	Novo Nordisk A/S
	B37	WO 98/58080	PCT	12-23-1998	Bioinvent International AB
	B38	WO 99/21979	PCT	05-06-1999	Maxygen, Inc.
✓	B39	WO 99/23107	PCT	05-14-1999	Maxygen, Incorporated
	B40	WO 99/23236	PCT	05-14-1999	Diversa Corporation
	B41	WO 99/33965	PCT	07-08-1999	Diatech Pty. Ltd.
	B42	WO 99/41368	PCT	08-19-1999	Maxygen, Inc.
	B43	WO 99/41369	PCT	08-19-1999	Maxygen, Inc.
	B44	WO 99/41383	PCT	08-19-1999	Maxygen, Inc.
	B45	WO 99/41402	PCT	08-19-1999	Maxygen, Inc.
	B46	WO 99/45110	PCT	09-10-1999	Diatech Pty. Ltd.
✓	B47	WO 99/57128	PCT	11-11-1999	Maxygen, Inc.

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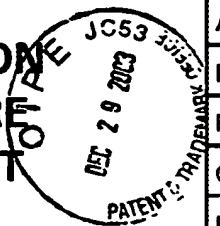
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Attorney Docket Number: 0046-P02386US0

802	B48	WO 99/58661	PCT	11-18-1999	Diatech Pty. Ltd.
	B49	WO 99/65927	PCT	12-23-1999	Maxygen, Inc.
	B50	WO 00/04190	PCT	01-27-2000	Maxygen, Inc.
✓	B51	WO 00/09679	PCT	02-24-2000	Proteus
✓	B52	WO 00/09727	PCT	02-24-2000	Maxygen, Inc.
✓	B53	WO 00/12680	PCT	03-09-2000	Maxygen, Inc.
✓	B54	WO 00/18906	PCT	04-06-2000	Maxygen, Inc.
✓	B55	WO 00/20573	PCT	04-13-2000	Maxygen, Inc.
✓	B56	WO 00/28008	PCT	05-18-2000	Maxygen, Inc.
✓	B57	WO 00/28017	PCT	05-18-2000	Maxygen, Inc.
✓	B58	WO 00/28018	PCT	05-18-2000	Maxygen, Inc.
✓	B59	WO 00/34512	PCT	06-15-2000	Proteus
✓	B60	WO 00/42559	PCT	07-20-2000	Maxygen, Inc.
✓	B61	WO 00/42560	PCT	07-20-2000	Maxygen, Inc.
✓	B62	WO 00/42561	PCT	07-20-2000	Maxygen, Inc.
✓	B63	WO 00/46344	PCT	08-10-2000	Diversa Corporation
✓	B64	WO 00/52155	PCT	09-08-2000	Maxygen, Inc.
✓	B65	WO 00/53744	PCT	09-14-2000	Diversa Corporation
✓	B66	WO 00/58517	PCT	10-05-2000	Diversa Corporation
	B67	WO 00/61731	PCT	10-19-2000	Maxygen, Inc.
✓	B68	WO 00/61740	PCT	10-19-2000	Maxygen, Inc.
✓	B69	WO 00/72013	PCT	11-30-2000	The Penn State Research Foundation
✓	B70	WO 00/73433	PCT	12-07-2000	Novo Nordisk A/S
✓	B71	2000-308490 A	Japan	11-07-2001	Maxygen, Inc.
✓	B72	10-66576	Japan Publication	03-10-1998	Novo Nordisk Aktie Selskab
✓	B73	2813314	France	03-01-2002	Biomethodes

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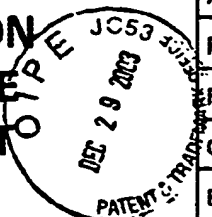
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SHEET 6 OF 9

Attorney Docket Number: 0046-P02386USO

OTHER PRIOR ART - NON-PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Include name of the author (in Capital Letters), title of the article (when appropriate), title of the item(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
SPC	C1	Berger, et al., "Expanding the Potential of Restriction Endonucleases: Use of Hapaxotermistic Enzymes", Anal. Biochem. 222:1-8, (1994)
	C2	Cadwell, et al., "Randomization of Genes by PCR Mutagenesis", PCT Methods Appl., 2:28-33, (1992)
	C3	Cadwell, et al., "Mutagenic PCR", PCT Methods Appl., 3:S136-140, (1994)
	C4	Casson & Manser, "Evaluation of Loss and Change of Specificity Resulting from Random Mutagenesis of an Antibody V _H Region", J. Immunol. 155: 5647-5654 (1995)
	C5	Chalfie, et al., "Green Florescent Protein as a Marker for Gene Expression", Science 263: 802-805 (1994)
	C6	Chen, et al., "Tuning the activity of an enzyme for unusual environments: Sequential random mutagenesis of subtilisin E for catalysis in dimethylformamide", Proc. Natl. Acad. Sci. USA 90: 5618-5622 (1993)
	C7	Cramer, et al., "DNA shuffling of a family of genes from diverse species accelerates directed evolution", Nature, 391: 288-291 (1998)
	C8	Deng, et al., "Simultaneous randomization of antibody CDRs by a synthetic ligase chain reaction strategy", Nucl. Acid Res. 21: 4418-4419, (1993)
	C9	Engberg, et al., "Phage-Display Libraries of Murine and Human Antibody Fab Fragments", Molecular Biotechnology 6: 287-310, (1996)
	C10	Giver, et al., "Directed evolution of a thermostable esterase", Proc. Natl. Acad. Sci. USA 95: 12809-12813, (1998)
	C11	Gram, et al., "In vitro selection and affinity maturation of antibodies from a naive combinatorial immunoglobulin library", Proc. Natl. Acad. Sci. USA 89: 3576-3580, (1992)
↓	C12	Hansson, et al., "Evolution of Differential Substrate Specificities in Mu Class Glutathione Transferases Probed by DNA Shuffling", J. Mol. Biol. 287: 265-276, (1999)

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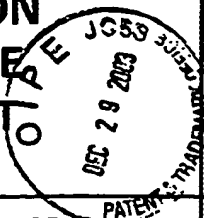
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Attorney Docket Number: 0046-P02386US0

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SP	C13	Henke & Bornscheuer, "Directed Evolution of an Esterase from Pseudomonas fluorescens. Random Mutagenesis by Error-Prone PCR or a Mutator Strain and Identification of Mutants Showing Enhanced Enantioselectivity by a Resorufin-Based Fluorescence Assay", Biol. Chem., 380: 1029-1033, (1999)
	C14	Ho, et al., "Site-directed mutagenesis by overlap extension using the polymerase chain reaction", Gene 77: 51-59, (1989)
	C15	Hoogenboom, et al., "By-passing Immunisation: Human Antibodies from Synthetic Repertoires of Germline V _H Gene Segments Rearranged in Vitro", J. Mol. Biol. 227: 381-388, (1992)
	C16	Horton, et al., "Engineering hybrid genes without the use of restriction enzymes: gene splicing by overlap extension", Gene, 77: 61-68, (1989)
	C17	Jansen, et al., "Disruption of phase during PCR amplification and cloning of heterozygous target sequences", NAR, 18: 5153-5156, (1990)
	C18	Kikuchi, et al., "Novel family shuffling methods for the in vitro evolution of enzymes", Gene 236: 159-167, (1999)
	C19	Kobayashi, et al., "Analysis of Assembly of Synthetic Antibody Fragments: Expression of Functional scFv with Predefined Specificity", Biotechniques, 23: 500-503, (1997)
	C20	Kwekkeboom, et al., "CD40 plays an essential role in the activation of human B cells by murine EL485 cells", Immunol. 79: 439-444, (1993)
	C21	Lewin, "Genes IV", page 272, Oxford University Press, (1990)
	C22	Lewis & Crowe, "Immunoglobulin complementary-determining region grafting by recombinant polymerase chain reaction to generate humanised monoclonal antibodies", Gene 101: 297-302 (1991)
↓	C23	Liu, et al., "Replacement and deletion mutations in the catalytic domain and belt region of Aspergillus awamori glucoamylase to enhance thermostability", Protein Eng. 13: 655-659 (2000)
	C24	Luqmani & Lymboura, "Subtraction Hybridization Cloning of RNA Amplified From Different Cell Populations Microdissected From Cryostat Tissue Sections", Anal. Biochem., 222: 102-109, (1994)

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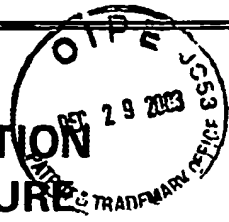
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Attorney Docket Number: 0046-P02386USO

802	C25	May, et al., "Inverting enantioselectivity by directed evolution of hydantoinase for improved production of L-methionine", Nat. Biotechnol. 18: 317-320, (2000)
	C26	Meyerhans, et al., "DNA recombination during PCR", Nucl. Acid Res., 18: 1687-91, (1990)
	C27	Moore, et al., "Directed evolution of a para-nitrobenzyl esterase for aqueous-organic solvents", Nature Biotechnology, 14: 458-467 (1996)
	C28	Orlandi, et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction", Proc. Natl. Acad. Sci. USA, 86: 3833-3837 (1989)
	C29	Paabo, et al., "Ancient DNA and the Polymerase Chain Reaction", J. Biol. Chem., 264: 9709-9712, (1989)
	C30	Paabo, et al., "DNA Damage Promotes Jumping between Templates during Enzymatic Amplification", J. Biol. Chem., 265: 4718-4721, (1990)
	C31	Prickett, et al., "A Calcium-Dependent Antibody for Identification and Purification of Recombinant Proteins", BioTechniques, 7: 580-589, (1989)
	C32	Roberts, et al., "Generation of an antibody with enhanced affinity and specificity for its antigen by protein engineering", Nature, 328: 731-734, (1987)
	C33	Schmidt-Dannert, et al., "Molecular breeding of carotenoid biosynthetic pathways", Nat. Biotechnol., 18: 750-753, (2000)
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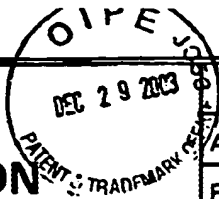
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**INFORMATION
DISCLOSURE
STATEMENT**

Complete if known

Application Number: 09/734,801

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Group Art Unit: 1637

Examiner Name: Chunduru, Suryaprabha

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<i>SP</i>	C39	Zhao & Arnold, "Directed evolution converts subtilisin E into a functional equivalent of thermitase", Protein Eng., 12: 47-53, (1999)
<i>SP</i>	C40	Zhao, et al., "Molecular evolution by staggered extension process (StEP) in vitro recombination", Nat. Biotechnol. 16: 258-261 (1998)

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